

1995 TRANSMISSION SERVICING

Automatic - Ford Motor Co.

APPLICATION

TRANSMISSION APPLICATION

Model	(1) Transmission
Aerostar, Explorer & Ranger	A4LD
(1) Transmission may be identified by oil pan gasket. See Fig. 1 .	

TRANSFER CASE APPLICATION

Model	Transfer Case
Aerostar	Dana TC-28
Explorer & Ranger	(1) Warner 1354
(1) Available with mechanical or electronic shift.	

IDENTIFICATION

OIL PAN GASKET



G121166

Fig. 1: Identifying Oil Pan Gasket (A4LD)

LUBRICATION

SERVICE INTERVALS

Transmission

Vehicles used in normal service do not require regularly scheduled maintenance. Fluid level should be checked whenever underhood maintenance is performed or if leakage is detected. Adjust bands when quality of shifts deteriorates or improper band adjustment is indicated.

On vehicles used for fleet service or those operated under severe conditions (such as police, taxi, or towing), replace fluid every 30,000 miles.

Transfer Case

Under normal driving conditions, replace transfer case fluid every 60,000 miles. Under heavy 4WD driving conditions, replace fluid more frequently.

CHECKING FLUID LEVEL

Transmission

1. With vehicle on level surface, operate vehicle until engine and transmission are at normal operating temperature. Apply parking brake. With engine idling, shift transmission through all gear ranges, ending in Park.

WARNING: On 4WD models, ensure transfer case is in any gear range EXCEPT Neutral before checking transmission fluid level.

2. Check transmission fluid level. Fluid level should be between HOT marks, or within crosshatched area on dipstick. Add fluid through filler tube as needed. **DO NOT** overfill.

CAUTION: DO NOT drive vehicle if fluid level is below bottom hole on dipstick and outside temperature is greater than 50° F (10° C).

Transfer Case

Remove filler plug. Fluid level should be even with bottom of filler plug hole. Add lubricant as needed.

RECOMMENDED FLUID

Transmission

All automatic transmissions use Motorcraft Mercon ATF (XT-2-QDX).

Transfer Case

All transfer cases use Motorcraft Mercon ATF (XT-2-QDX).

FLUID CAPACITIES

NOTE: Approximate fluid capacities are listed. Determine correct fluid level by mark on dipstick or by gauging fluid level at filler plug hole.

AUTOMATIC TRANSMISSION REFILL CAPACITIES ⁽¹⁾

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Application	Qts. (L)
A4LD Transmission	
2WD	9.7 (9.2)
4WD	10.0 (9.5)
(1) Includes torque converter, cooler, and lines.	

TRANSFER CASE REFILL CAPACITIES

Application	Qts. (L)
Borg-Warner 1354	1.3 (1.2)
Dana TC-28	2.3 (2.2)

DRAINING & REFILLING

Transmission

1. Raise and support vehicle. Loosen oil pan bolts. Tap oil pan to break gasket seal. Drain fluid. Remove retaining bolts, oil pan, and gasket.
2. Remove retaining bolt (if equipped), oil filter/screen, and gasket. Install NEW gasket, oil filter/screen, and oil pan. Tighten retaining bolt to specification. See **TORQUE SPECIFICATIONS** .
3. On A4LD applications, add 3 quarts (2.8L) of ATF to transmission. Use Motorcraft Mercon ATF (XT-2-QDX).
4. Check fluid level. See **CHECKING FLUID LEVEL** . When filling transmission, refer to **AUTOMATIC TRANSMISSION REFILL CAPACITIES** . Recheck fluid level when transmission is at normal operating temperature. **DO NOT** overfill.

Transfer Case

Raise and support vehicle. Remove drain plug. Drain fluid. Install drain plug. Remove filler plug. Refill transfer case to bottom of filler plug hole. See **RECOMMENDED FLUID** . When filling transfer case, refer to **TRANSFER CASE REFILL CAPACITIES** . Install filler plug.

ADJUSTMENTS

AUTOMATIC TRANSMISSION BANDS

NOTE: A4LD has adjustments for intermediate and overdrive bands; see **Fig. 2** .

A4LD

Raise and support vehicle. Clean area around band adjuster screw. See **Fig. 2** . Remove and discard adjuster screw lock nut. Install NEW lock nut loosely. Tighten adjuster screw to 120 INCH lbs. (14 N.m). Back off adjuster screw exactly 2 turns. Hold adjuster screw in position and tighten NEW lock nut to 35-40 ft. lbs. (47-54 N.m). Repeat procedure for other band.

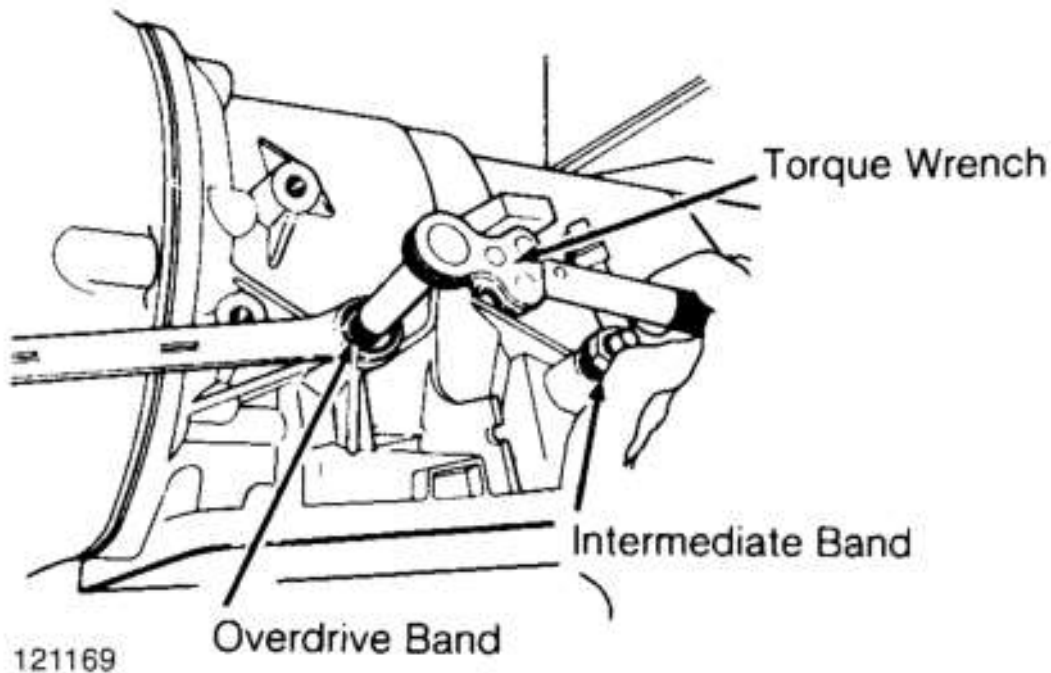


Fig. 2: Adjusting Intermediate & Overdrive Bands (A4LD)
Courtesy of FORD MOTOR CO.

KICKDOWN CONTROL CABLE

NOTE: Kickdown control cable self-adjusts after installation by pressing accelerator pedal to floor. If kickdown cable is removed, it may need to be reset and then readjusted.

Initial Resetting Procedure & Adjustment

If kickdown cable has been removed, it must be reset when installing. From under the hood, press adjustment D-flat while pulling cable conduit out from body. See **Fig. 3** . Adjust kickdown cable by pressing accelerator pedal to floor.

NOTE: If transmission kickdown is difficult to achieve at wide open throttle, ensure accelerator pedal travel is not restricted by floor mats.

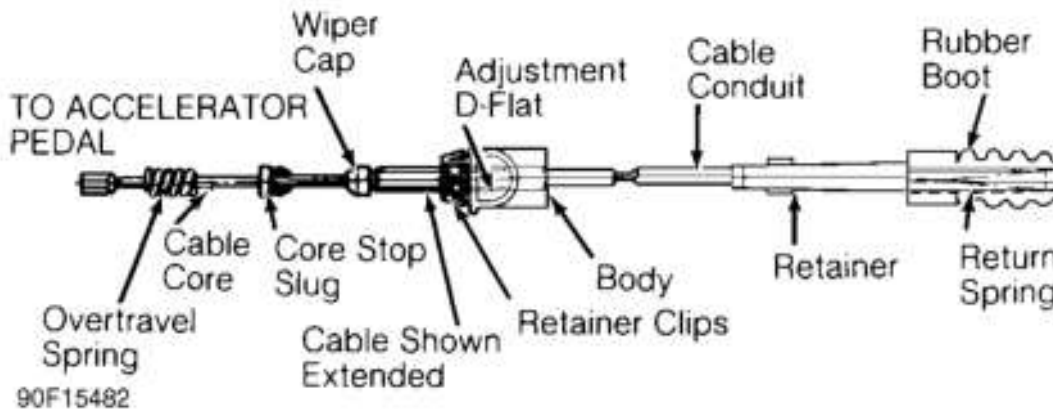


Fig. 3: Identifying Kickdown Cable Components (A4LD)
 Courtesy of FORD MOTOR CO.

GEARSHIFT CABLE

1. With engine off and parking brake applied, set shift lever to "OD" position. Hang a 3-lb. (1.4 kg) weight on lever.
2. Raise and support vehicle. Release lock tab on top of shift cable at transmission bracket by pushing tangs downward. Disconnect shift cable from manual lever on transmission.
3. On Aerostar models, move manual lever all the way forward, then rearward 3 detent positions. On Explorer and Ranger models, move manual lever all the way rearward, then forward 3 detent positions.
4. On all models, reconnect shift cable at manual lever on transmission. Push lock tab downward. Ensure lock tab fully engages and gearshift cable is locked in place.
5. Ensure shift cable is properly secured to floor panels. Lower vehicle. If shift indicator does not align with "OD" position on instrument panel, rotate thumb screw near shift indicator until properly aligned. Remove weight from shift lever.

NOTE: If necessary, remove steering column covers to gain access to thumb screw for shift indicator adjustment. Ensure transmission operates in all gear ranges with correct transmission detent position.

NEUTRAL SAFETY SWITCH

Neutral safety switch is located on side of transmission case. It is nonadjustable. Use Socket (T74P-77247-A) when replacing neutral safety switch or switch will be damaged.

TORQUE SPECIFICATIONS

TORQUE SPECIFICATIONS

Application	Ft. Lbs. (N.m)
Band Adjusting Screw Lock Nut	35-40 (47-54)
Oil Pan Bolt	10-11 (14-15)

Shift Rod-To-Bellcrank Assembly Nut	12-18 (16-24)
	INCH Lbs. (N.m)
Neutral Safety Switch Bolt	96-132 (10.8-14.9)
Oil Filter/Screen Bolt	71-97 (8.0-10.9)